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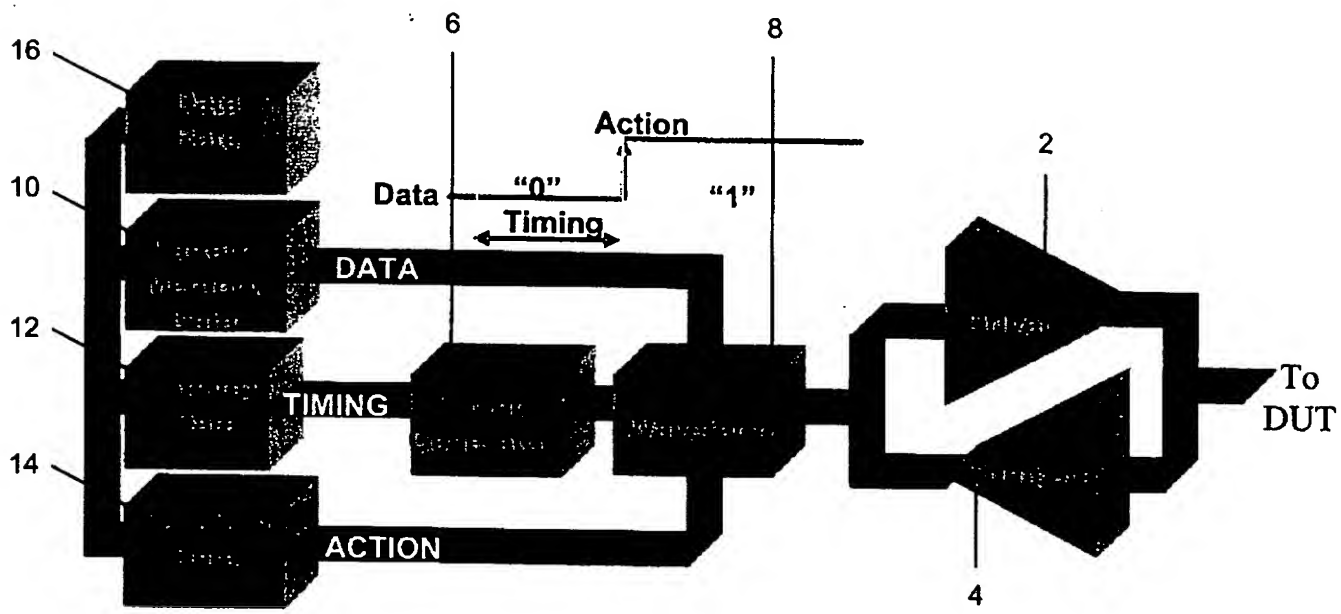

Action = Pattern Data * Timing Data (Limited by TimeSet) * Waveset * Drive

Figure 1

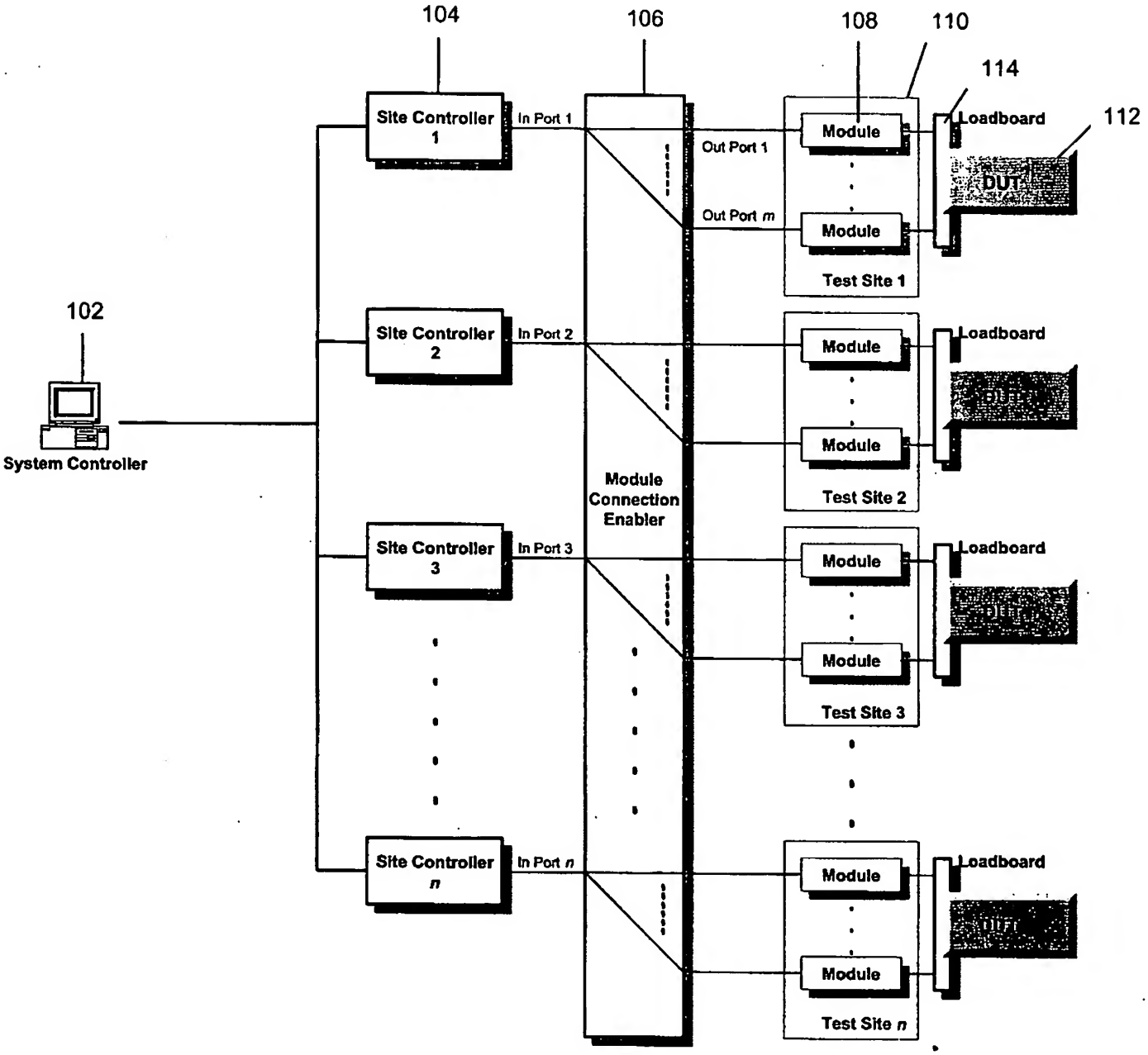
100
104
106
108
110
114
112
102
System Controller
Site Controller 1
Site Controller 2
Site Controller 3
Site Controller n
In Port 1
In Port 2
In Port 3
In Port n
Out Port 1
Out Port m
Module Connection Enabler
Module
Loadboard
DUT
Test Site 1
Test Site 2
Test Site 3
Test Site n

Figure 2

200

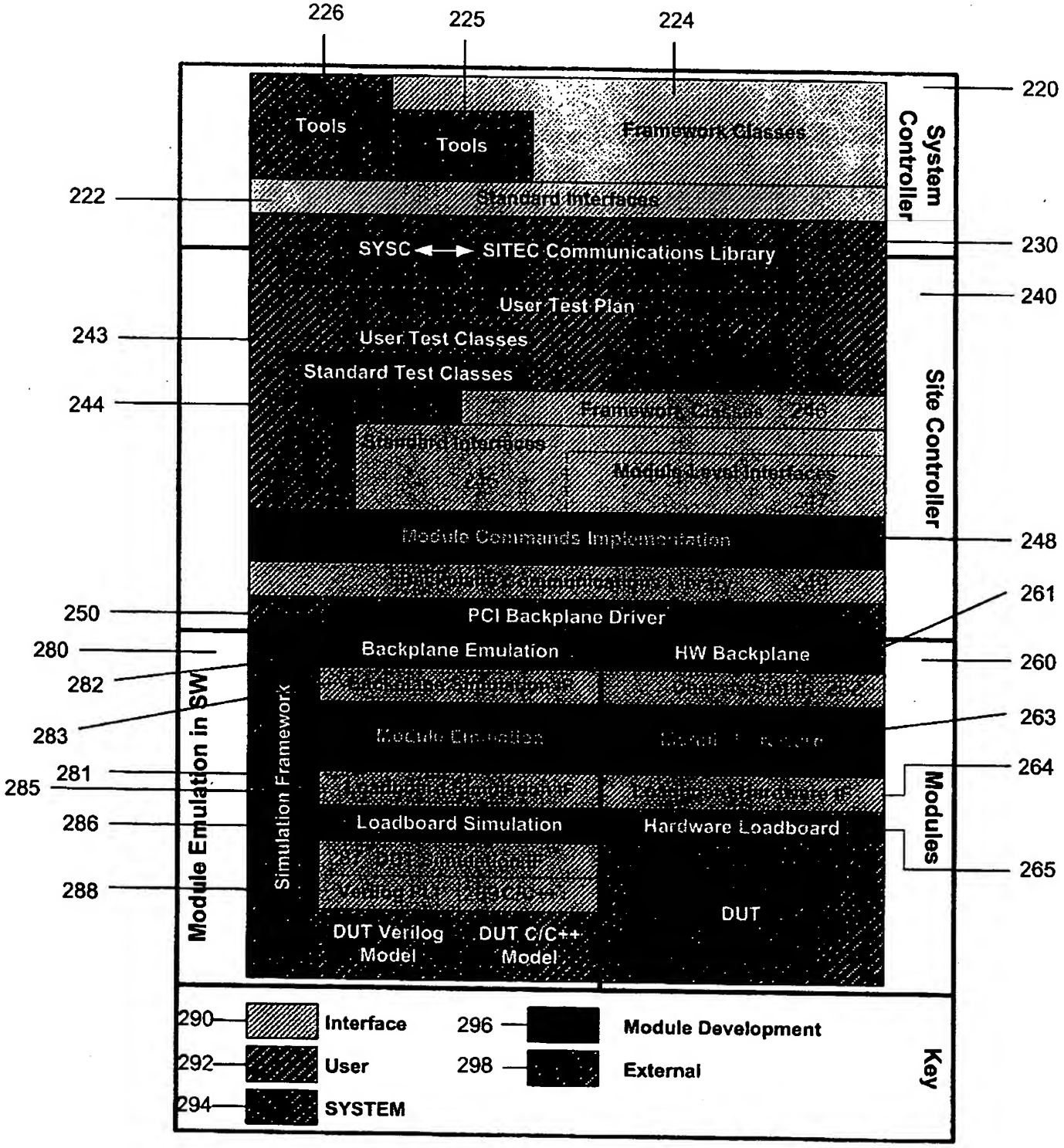
226
225
224
220
Tools
Tools
Framework Classes
System Controller
222
Standard Interfaces
SYSC ◄► SITEC Communications Library
230
240
User Test Plan
243
User Test Classes
Standard Test Classes
244
Framework Classes 246
Standard Interfaces
Module Level Interfaces
Site Controller
Module Commands Implementation
248
250
PCI Backplane Driver
261
280
Backplane Emulation
HW Backplane
260
282
283
263
264
281
285
Modules
Loadboard Simulation
Hardware Loadboard
286
265
288
DUT
DUT Verilog Model
DUT C/C++ Model
Module Emulation in SW
Simulation Framework
290
Interface
296
Module Development
292
User
298
External
294
SYSTEM
Key

Figure 3

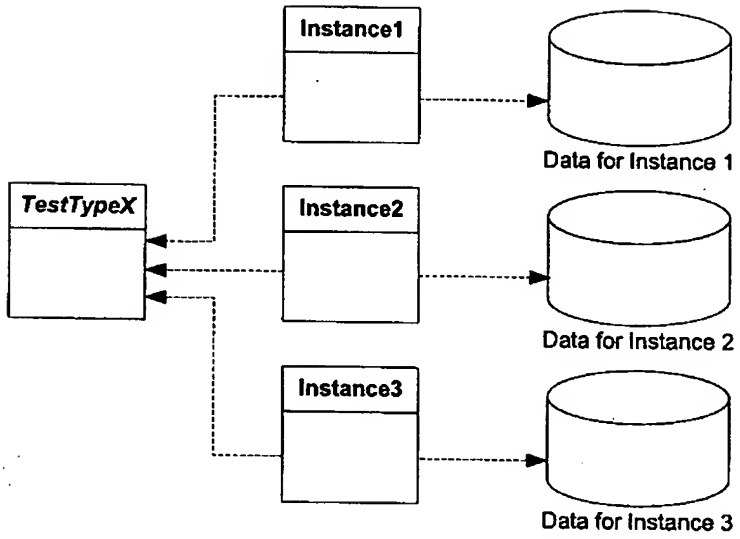
Instance1
Data for Instance 1
TestTypeX
Instance2
Data for Instance 2
Instance3
Data for Instance 3

Figure 4

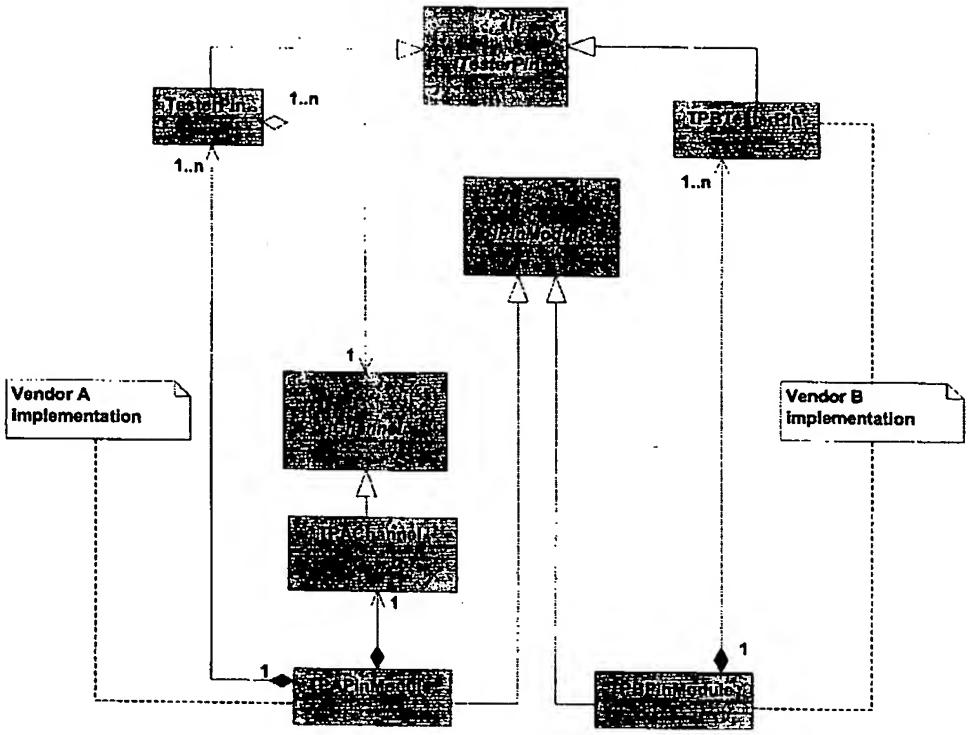
1..n
1..n
1..n
1
1
1
1
Vendor A
Implementation
Vendor B
Implementation

Figure 5

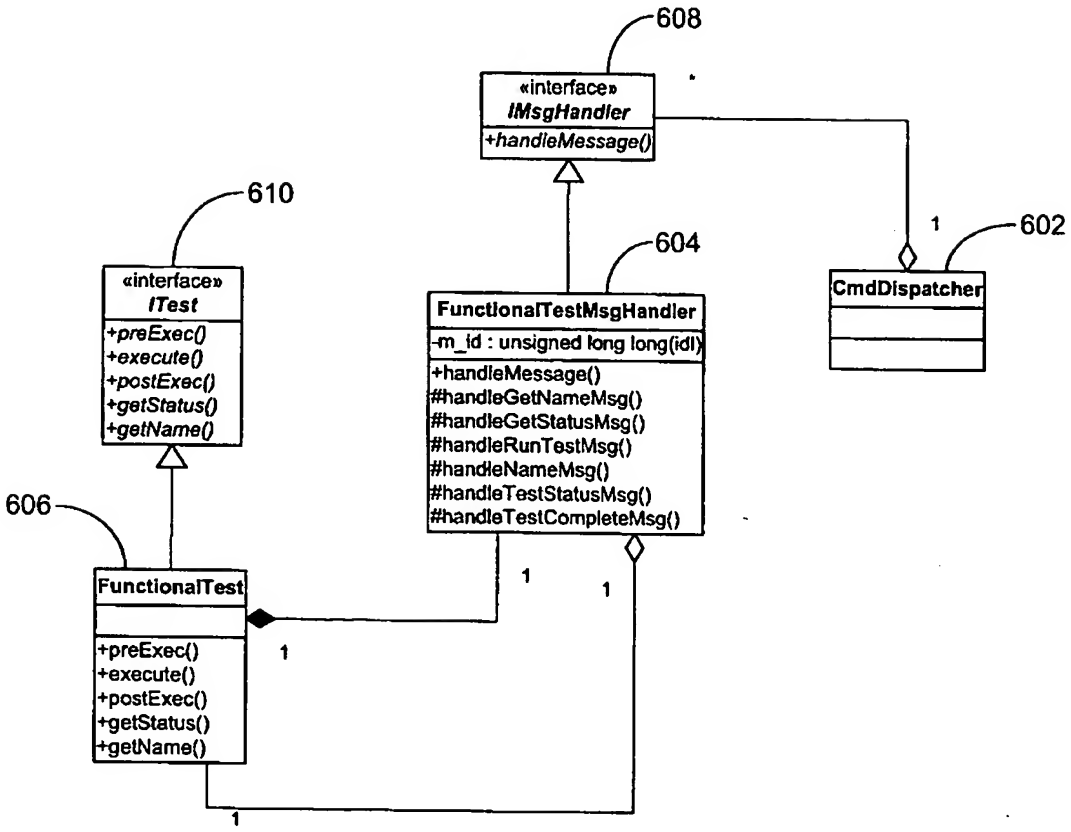
608
«interface»
IMsgHandler
+handleMessage()
610
«interface»
ITest
+preExec()
+execute()
+postExec()
+getStatus()
+getName()
604
FunctionalTestMsgHandler
-m_id : unsigned long long(idl)
+handleMessage()
#handleGetNameMsg()
#handleGetStatusMsg()
#handleRunTestMsg()
#handleNameMsg()
#handleTestStatusMsg()
#handleTestCompleteMsg()
1
602
CmdDispatcher
606
FunctionalTest
+preExec()
+execute()
+postExec()
+getStatus()
+getName()
1
1
1
1

Figure 6

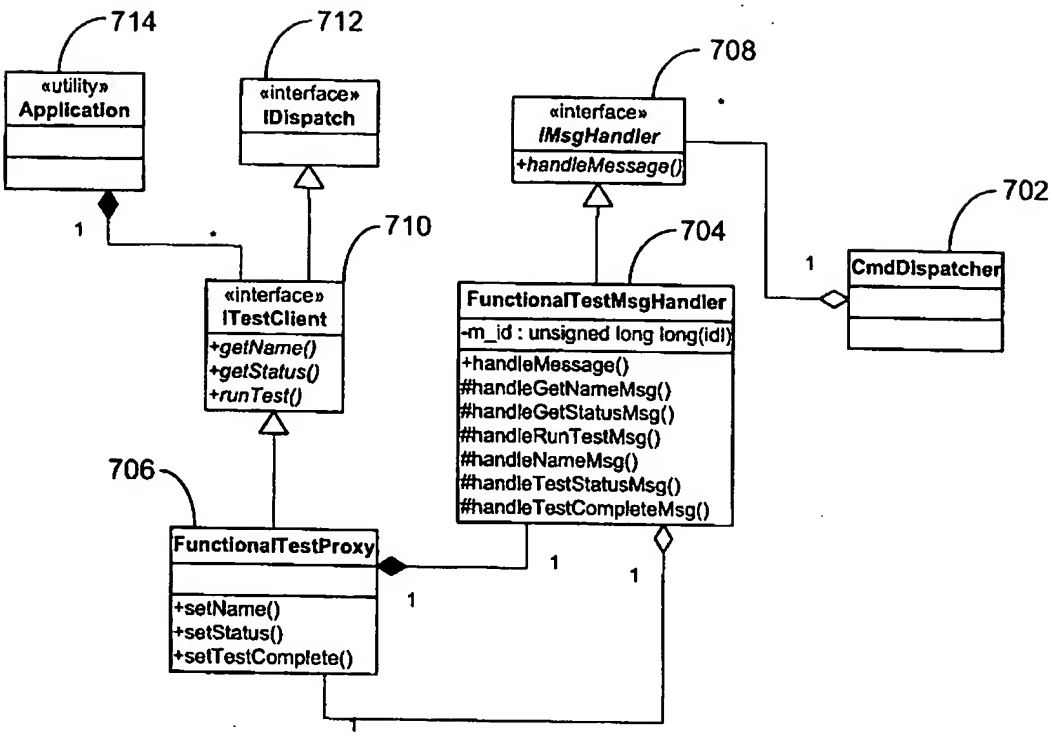
714
712
708
«utility»
Application
«interface»
IDispatch
«interface»
IMsgHandler
+handleMessage()
702
1
710
704
1
«interface»
ITestClient
+getName()
+getStatus()
+runTest()
FunctionalTestMsgHandler
-m_id : unsigned long long(idl)
+handleMessage()
#handleGetNameMsg()
#handleGetStatusMsg()
#handleRunTestMsg()
#handleNameMsg()
#handleTestStatusMsg()
#handleTestCompleteMsg()
CmdDispatcher
706
FunctionalTestProxy
+setName()
+setStatus()
+setTestComplete()
1
1
1

Figure 7

800

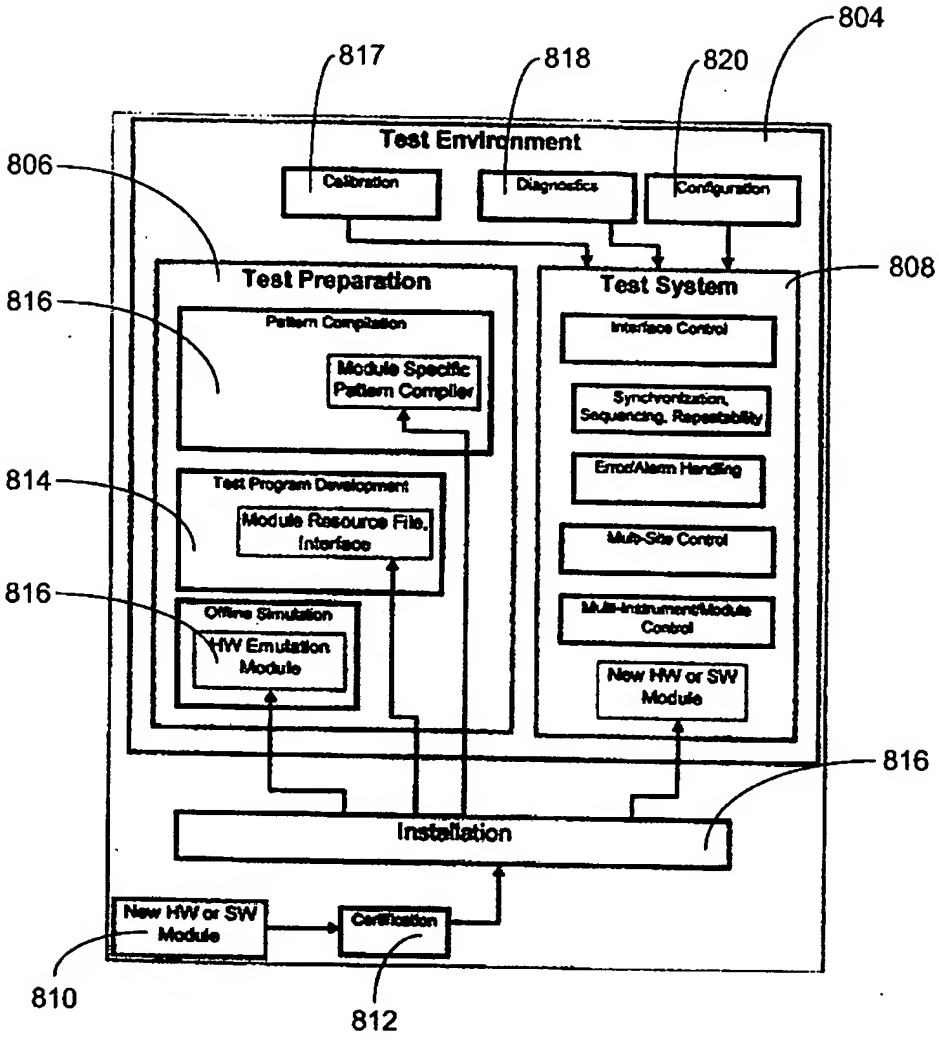
804
817
818
820
Test Environment
Calibration
Diagnostics
Configuration
806
Test Preparation
808
Test System
816
Pattern Compilation
Module Specific Pattern Compiler
Interface Control
Synchronization, Sequencing, Repeatability
814
Test Program Development
Module Resource File, Interface
Error/Alarm Handling
Multi-Site Control
816
Offline Simulation
HW Emulation Module
Multi-Instrument/Module Control
New HW or SW Module
816
Installation
New HW or SW Module
Certification
810
812

Figure 8